

# RADIOCOMMUNICATION VERIFICATION SUMMARY

Report No. HK08020362-2(R1)

Superseded report no. HK08020362-2 dated 8 April, 2008

☐ Electric household products    ☐ ITE    ☒ Others DECT Phone (Base Unit)

Model : CL-3333					Applicant: Xingtel Xiamen Electronics Co., Ltd. Xingtel Building, Chuangxin Road, Torch Hi-Tech Industrial District, Xiamen, China.				
Product Description : DECT Phone (Base Unit)					Sample Receipt Date : 11 February, 2008				
Test Conducted Date : 12 February, 2008 to 7 April, 2008									
<input checked="" type="checkbox"/> 1 <sup>st</sup> TEST					ALL TESTS WERE CONDUCTED IN ACCORDANCE WITH:  * ETSI EN301406 V1.5.1 (2003-07)				
<input type="checkbox"/> 2 <sup>nd</sup> TEST (after modification)									
Test Result	OK	Not OK	N/A	See Remark	Test Result	OK	Not OK	N/A	See Remark
Test Case 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Test Case 14	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Test Case 2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Test Case 15	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Test Case 3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Test Case 16	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Test Case 4	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Test Case 17	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Test Case 5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Test Case 18	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Test Case 6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Test Case 19	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Test Case 7	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Test Case 20	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Test Case 8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Test Case 21	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Test Case 9	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Test Case 22	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Test Case 10	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Test Case 23	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Test Case 11	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Test Case 24	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Test Case 12	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Test Case 25	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Test Case 13	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Test Case 26	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Remark: When determining the test conclusion, the Measurement Uncertainty of test has been considered.									

**Prepared and Checked by:**

**Approved by:**

**Sign On File**

**Ken Sit**

**Supervisor**

**Intertek Hong Kong**

**Signature**

**Leung Wai Leung, Tommy**

**Senior Manager**

**Intertek Hong Kong**

**11 April, 2008**

**Date**

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## Test Campaign Report

Report No.: HK08020362-2(R1)

Test Cases	Clauses	Descriptions	Uncertainty	Results	Remarks
1	4.5.1.	Accuracy and Stability of RF carriers	10kHz	OK	
2	4.5.2.	Timing jitter: slot-slot on the same channel	0.1μs	OK	
3	4.5.2.	Reference timing accuracy of a RFP	1ppm	OK	
4	4.5.2.	Measurement of packet timing accuracy	0.1μs	N/A	1
5	4.5.3.	Transmission Burst	1dB	OK	
6	4.5.4.1.1.	Transmitted Power: PP with an integral antenna	2.2dB	OK	
7	4.5.4.1.2.	Transmitted Power: PP with an external antenna connector	1dB	N/A	1
8	4.5.5.	RF carrier modulation -Part 1 -Part 2 -Part 3 -Part 4	10kHz 10kHz 10kHz 5kHz	OK	
9	4.5.6.2.	Emissions due to modulation	1dB	OK	
10	4.5.6.3.	Emissions due to transmitter transients	1dB	OK	
11	4.5.6.4.	Emissions due to intermodulation	1dB	N/A	1
12	4.5.6.5.	Spurious emissions when allocated a transmit channel (Radiated Emissions)	4.8dB	OK	
12	4.5.6.5.	Spurious emissions when allocated a transmit channel (Conducted Emissions)	3.1dB	OK	
13	4.5.7.1.	Radio receiver sensitivity	5%	OK	
14	4.5.7.2.	Radio receiver reference bit error ratio	5%	OK	
15	4.5.7.3.	Radio receiver interference performance	5%	OK	
16	4.5.7.4.	Radio receiver blocking case 1	5%	OK	
17	4.5.7.5.	Radio receiver blocking case 2	5%	OK	
18	4.5.7.6.	Receiver intermodulation performance	5%	OK	
19	4.5.7.7.	Spurious emissions when the radio endpoint has no allocated transmit channel	4.8dB	N/A	1
20	4.5.8.	Synchronization port	---	N/A	1
21	4.5.9.	Equipment identity verification / Safeguards	---	OK	2
22	4.5.10.	Efficient use of radio spectrum	---	OK	2
23	4.5.11.	WRS	---	N/A	1
24	4.5.12.	PP to PP communication	---	N/A	1
25	4.5.13.	Direct communication	---	N/A	1
26	4.5.14.	Higher level modulation	---	N/A	1

### Remarks:

1. The requirements are not appropriate for the captioned EUT based on the applicant's declared statements and the type of the equipment.
2. There are no defined tests. Conformance by applicant's declaration.

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## **Radiocommunication Results Conclusion (with Justification)**

RE: Radiocommunication Testing Pursuant to R&TTE Directive 1999/5/EC  
Performed On the DECT Phone (Base Unit),  
Model: CL-3333

We tested the DECT Phone (Base Unit), Model: CL-3333, to determine if it was in compliance with the relevant EN standards as marked on the Radiocommunication Verification Summary. We found that the unit met the requirement of ETSI EN301406 V1.5.1 (2003-07) standard when tested as received.

The production units are required to conform to the initial sample as received when the units are placed on the market.

Ctrl. No.: 1.2.1

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## LABORATORY MEASUREMENTS

### Configuration Information

<b>Equipment Under Test (EUT):</b>	DECT Phone (Base Unit)
<b>Model:</b>	CL-3333
<b>Serial No.:</b>	Not Labelled
<b>Support Equipment:</b>	N/A
<b>Cables:</b>	N/A
<b>AC-DC Adaptor:</b>	Input: 230VAC 50Hz 45mA Output: 9VDC 300mA 2.7VA Model: G090030D25 (Supplied by Client)
<b>Test Voltage:</b>	Nominal test voltage: 230VAC Lower extreme test voltage: 207VAC Upper extreme test voltage: 253VAC

**Test Case 1: Accuracy and Stability of RF Carriers (Clause 5.3.1) ----- Pass**

--- The measurement was made *after* the first second of transmission

RF Channel	Voltage (Vac)	Temperature (°C)	Measured Frequency Offset (kHz)	Limits
5	230	+25	-11	Within $\pm 50\text{kHz}$
	207	+10	-5	Within $\pm 50\text{kHz}$
	253	+10	-3	Within $\pm 50\text{kHz}$
	207	+40	1	Within $\pm 50\text{kHz}$
	253	+40	-4	Within $\pm 50\text{kHz}$
0	230	+25	-9	Within $\pm 50\text{kHz}$
	207	+10	-6	Within $\pm 50\text{kHz}$
	253	+10	-5	Within $\pm 50\text{kHz}$
	207	+40	-6	Within $\pm 50\text{kHz}$
	253	+40	-5	Within $\pm 50\text{kHz}$
9	203	+25	-7	Within $\pm 50\text{kHz}$
	207	+10	-3	Within $\pm 50\text{kHz}$
	253	+10	-3	Within $\pm 50\text{kHz}$
	207	+40	2	Within $\pm 50\text{kHz}$
	253	+40	2	Within $\pm 50\text{kHz}$

**Test Case 2: Timing jitter : slot-slot on the same channel (Clause 5.3.2.1) ----- Pass**

RF Channel	Voltage (Vac)	Temperature (°C)	Measured Packet timing jitter		Limits (Mean)
			Minimum (µs)	Maximum (µs)	
5	230	+25	-0.01	0.00	Within ±1µs
	207	+10	-0.01	0.01	Within ±1µs
	253	+10	-0.01	0.00	Within ±1µs
	207	+40	-0.00	0.00	Within ±1µs
	253	+40	-0.00	0.00	Within ±1µs

**Test Case 3: Measurement of reference timing accuracy (Clause 5.3.2.2) ----- Pass**

RF Channel	Voltage (Vac)	Temperature (°C)	Measured Timing Accuracy and Stability (ppm)	Limits
5	230	+25	0.64	< 5 ppm
	207	+10	0.81	< 10 ppm
	253	+10	0.91	< 10 ppm
	207	+40	-0.20	< 10 ppm
	253	+40	-0.11	< 10 ppm

**Test Case 5: Transmission Burst (Clause 5.3.3)**

RF Channel	Voltage (Vac)	Temperature (°C)	Limits	Result	Details
5	230	+25	Matching with Defined Power - Time Template	Pass	See Attachment Ctrl No. 5.1.1
	230	+10	Matching with Defined Power - Time Template	Pass	See Attachment Ctrl No. 5.1.2
	230	+40	Matching with Defined Power - Time Template	Pass	See Attachment Ctrl No. 5.1.3
0	230	+25	Matching with Defined Power - Time Template	Pass	See Attachment Ctrl No. 5.1.4
	230	+10	Matching with Defined Power - Time Template	Pass	See Attachment Ctrl No. 5.1.5
	230	+40	Matching with Defined Power - Time Template	Pass	See Attachment Ctrl No. 5.1.6
9	230	+25	Matching with Defined Power - Time Template	Pass	See Attachment Ctrl No. 5.1.7
	230	+10	Matching with Defined Power - Time Template	Pass	See Attachment Ctrl No. 5.1.8
	230	+40	Matching with Defined Power - Time Template	Pass	See Attachment Ctrl No. 5.1.9

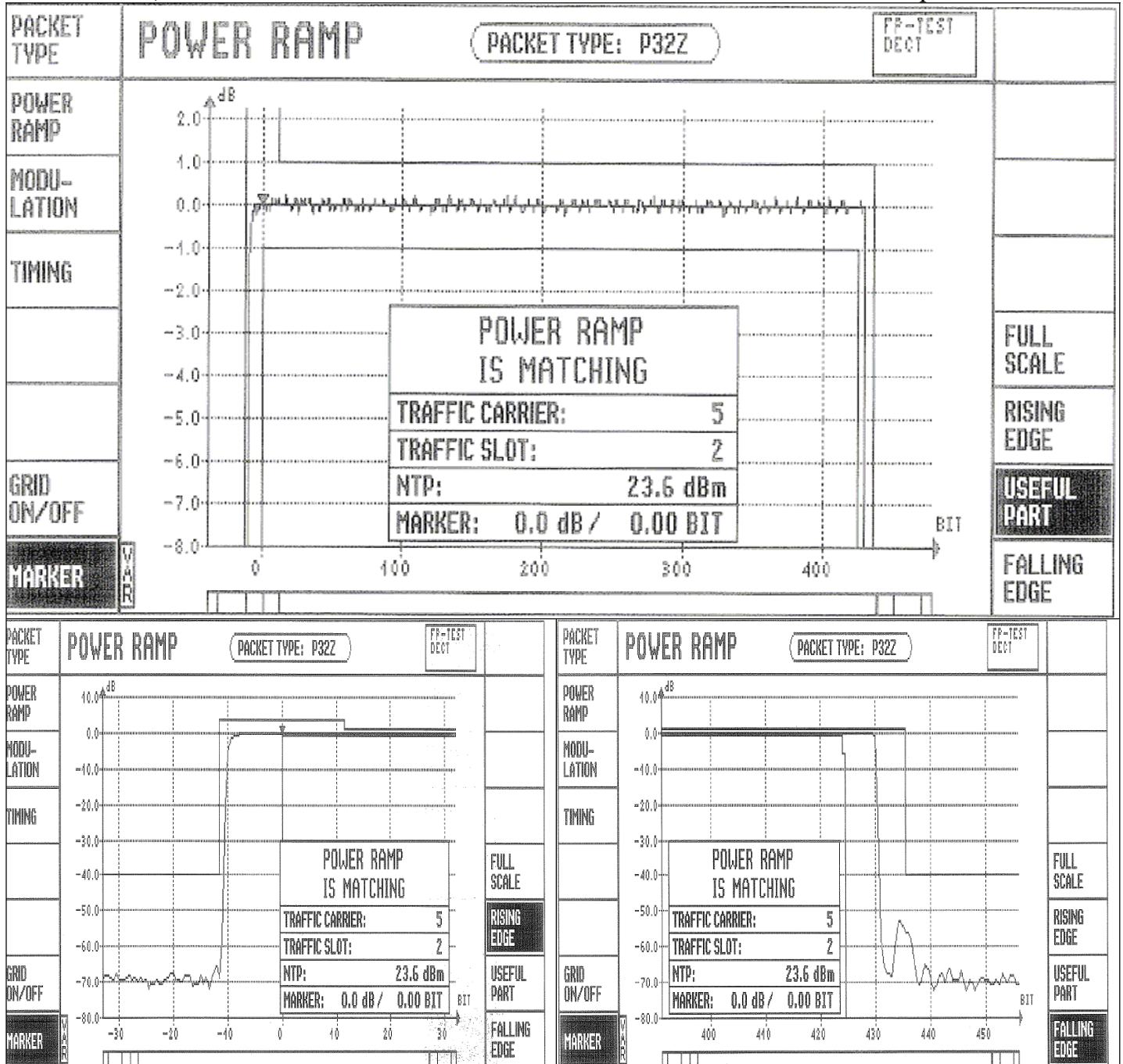


# INTERTEK TESTING SERVICES

Report No.: HK08020362-2(R1)

RF Channel, C = 5

Temperature: Ambient



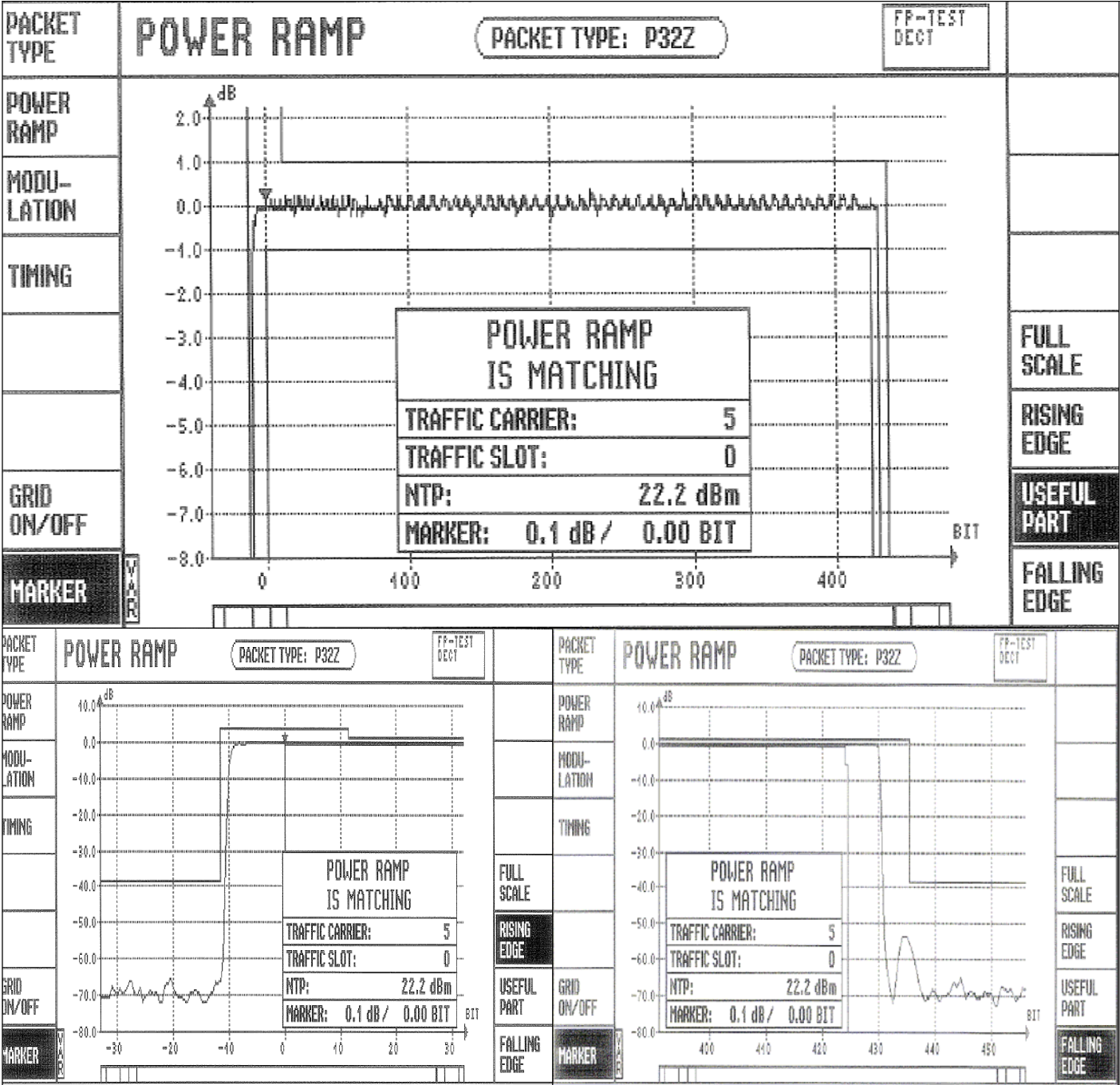
Ctrl. No.: 5.1.1

INTERTEK TESTING SERVICES

Report No.: HK08020362-2(R1)

RF Channel, C = 5

Temperature: +10°C

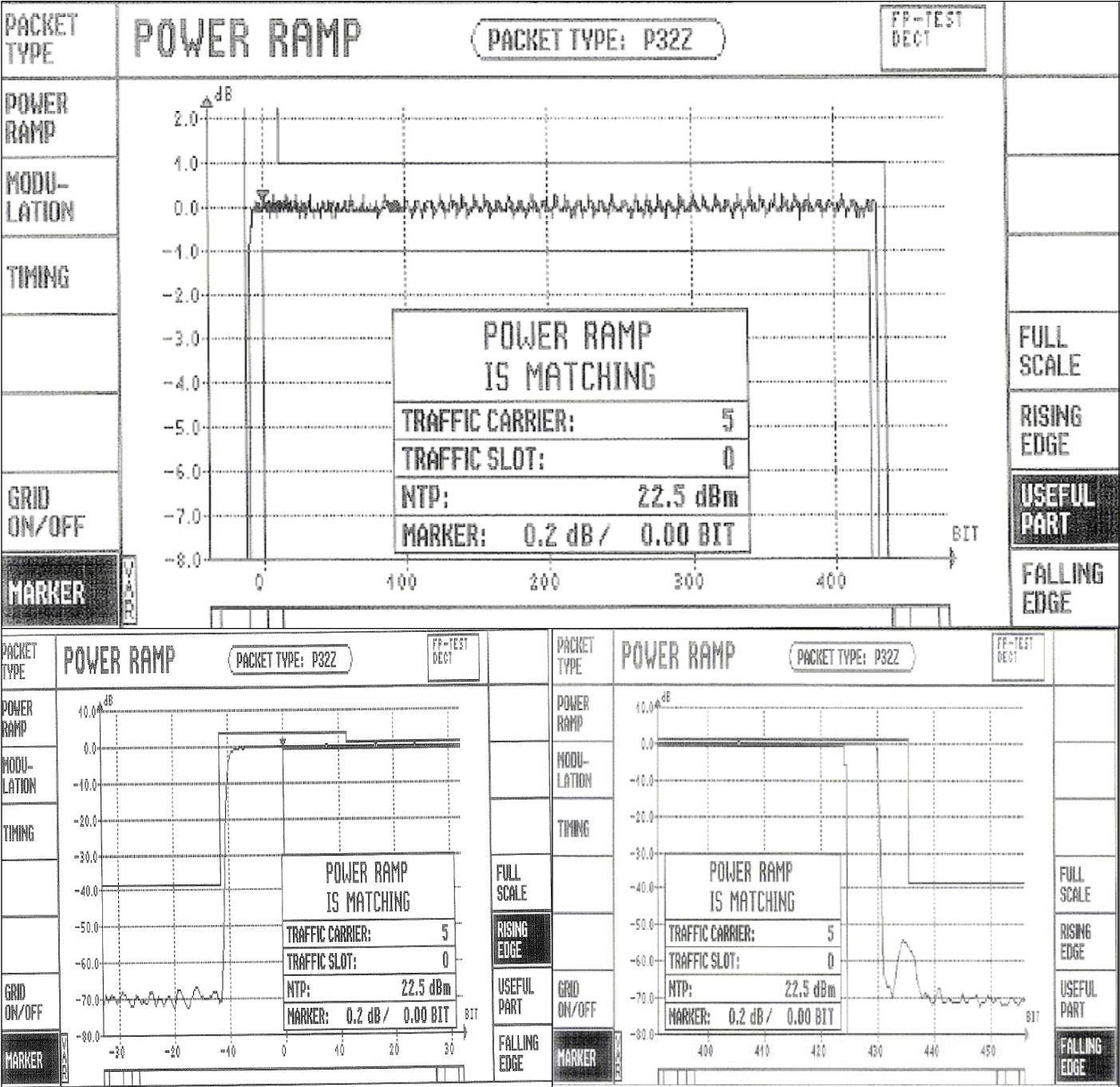


INTERTEK TESTING SERVICES

Report No.: HK08020362-2(R1)

RF Channel, C = 5

Temperature: +40°C



PACKET TYPE

POWER RAMP

PACKET TYPE: P322

FP-TEST DECT

POWER RAMP

MODULATION

TIMING

GRID ON/OFF

MARKER

FULL SCALE

RISING EDGE

USEFUL PART

FALLING EDGE

PACKET TYPE

POWER RAMP

PACKET TYPE: P322

FP-TEST DECT

POWER RAMP

MODULATION

TIMING

GRID ON/OFF

MARKER

FULL SCALE

RISING EDGE

USEFUL PART

FALLING EDGE

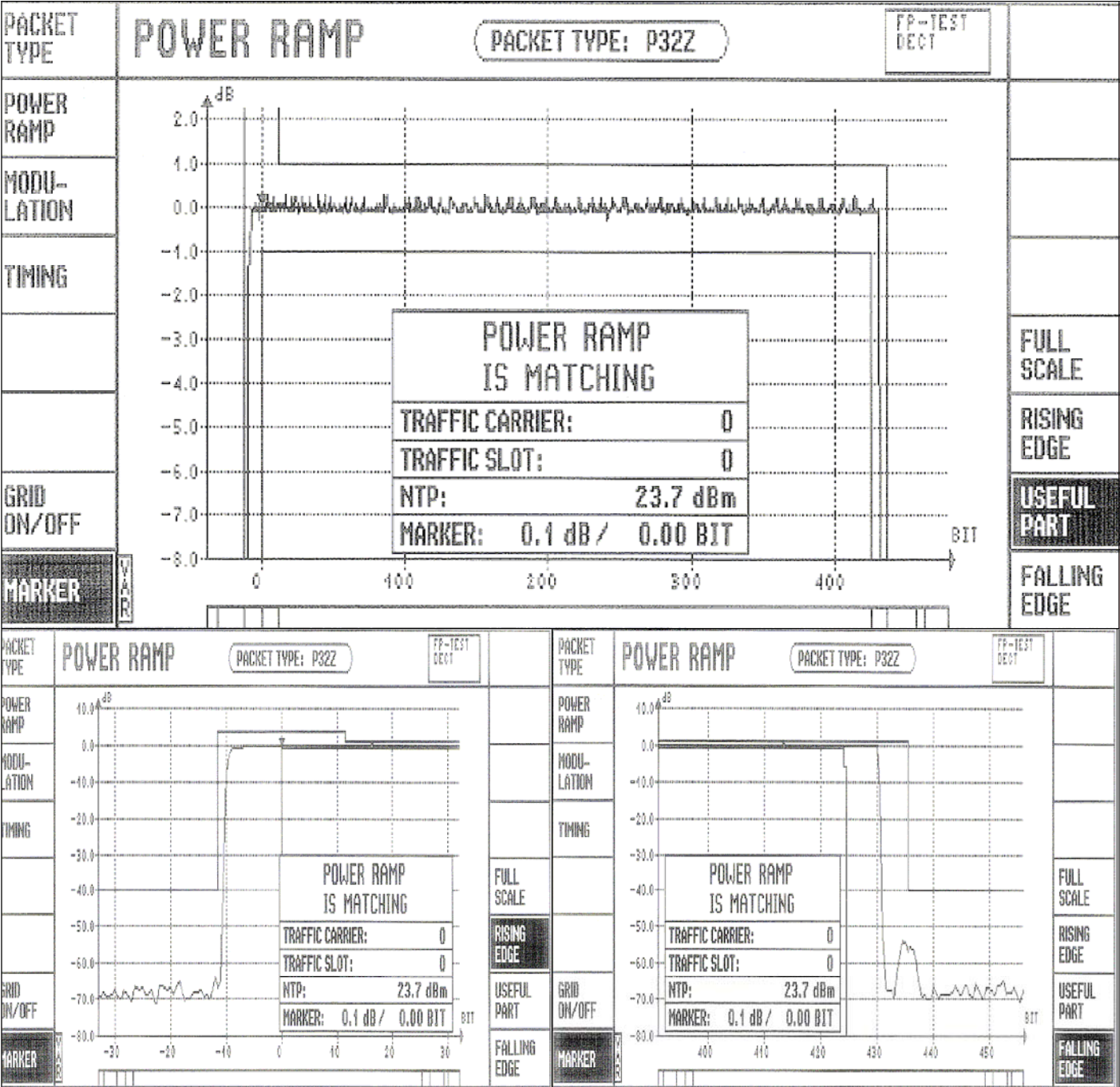


INTERTEK TESTING SERVICES

Report No.: HK08020362-2(R1)

RF Channel, C = 0

Temperature: Ambient



PACKET TYPE

POWER RAMP

PACKET TYPE: P32Z

FP-TEST DECT

POWER RAMP

MODULATION

TIMING

GRID ON/OFF

MARKER

FULL SCALE

RISING EDGE

USEFUL PART

FALLING EDGE

PACKET TYPE

POWER RAMP

PACKET TYPE: P32Z

FP-TEST DECT

POWER RAMP

MODULATION

TIMING

GRID ON/OFF

MARKER

FULL SCALE

RISING EDGE

USEFUL PART

FALLING EDGE

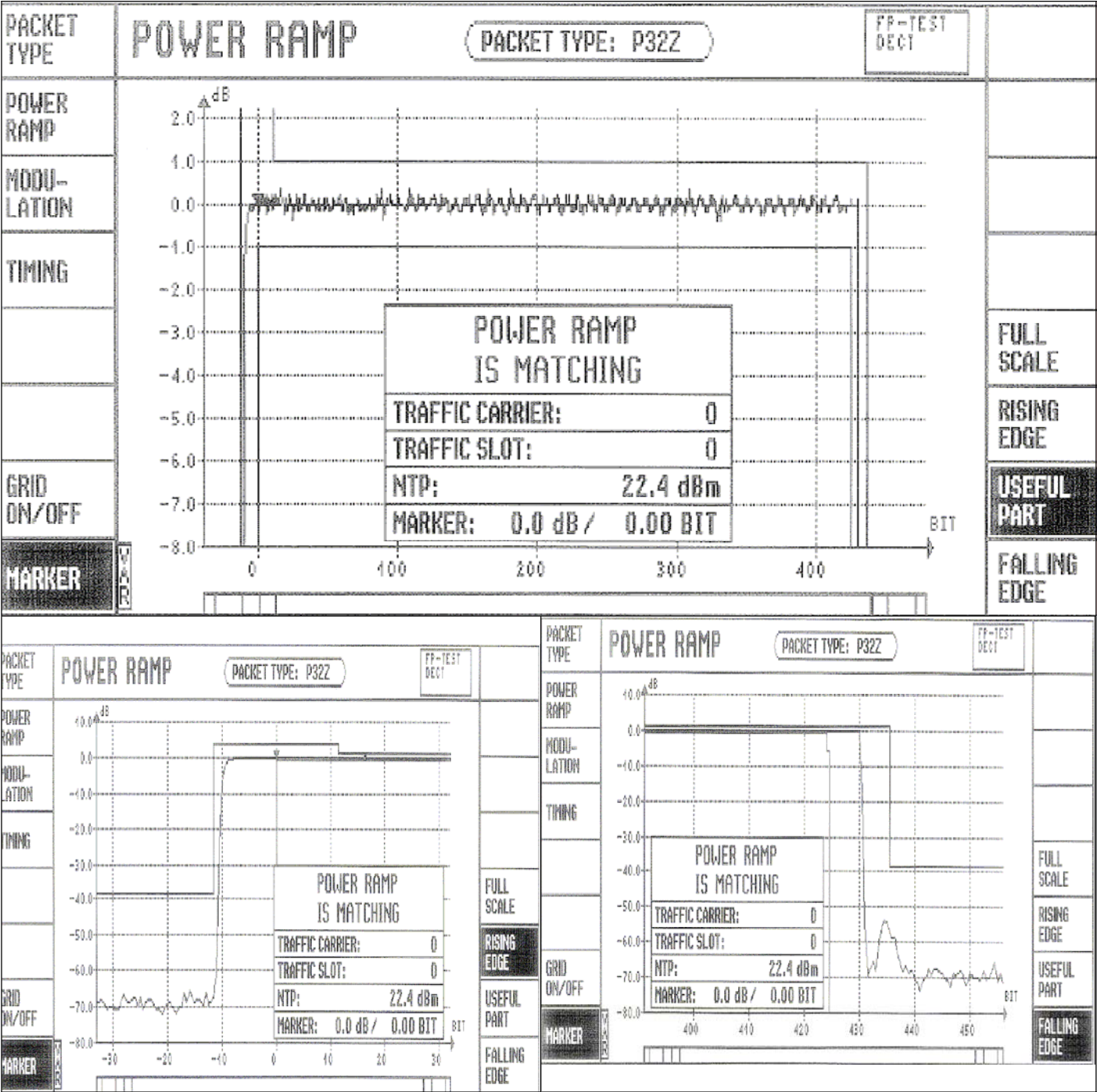
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INTERTEK TESTING SERVICES

Report No.: HK08020362-2(R1)

RF Channel, C = 0

Temperature: 10°C



PACKET TYPE

POWER RAMP

PACKET TYPE: P32Z

FP-TEST DECT

POWER RAMP

MODULATION

TIMING

GRID ON/OFF

MARKER

POWER RAMP IS MATCHING

TRAFFIC CARRIER: 0

TRAFFIC SLOT: 0

NTP: 22.4 dBm

MARKER: 0.0 dB / 0.00 BIT

FULL SCALE

RISING EDGE

USEFUL PART

FALLING EDGE

PACKET TYPE

POWER RAMP

PACKET TYPE: P32Z

FP-TEST DECT

POWER RAMP

MODULATION

TIMING

GRID ON/OFF

MARKER

POWER RAMP IS MATCHING

TRAFFIC CARRIER: 0

TRAFFIC SLOT: 0

NTP: 22.4 dBm

MARKER: 0.0 dB / 0.00 BIT

FULL SCALE

RISING EDGE

USEFUL PART

FALLING EDGE

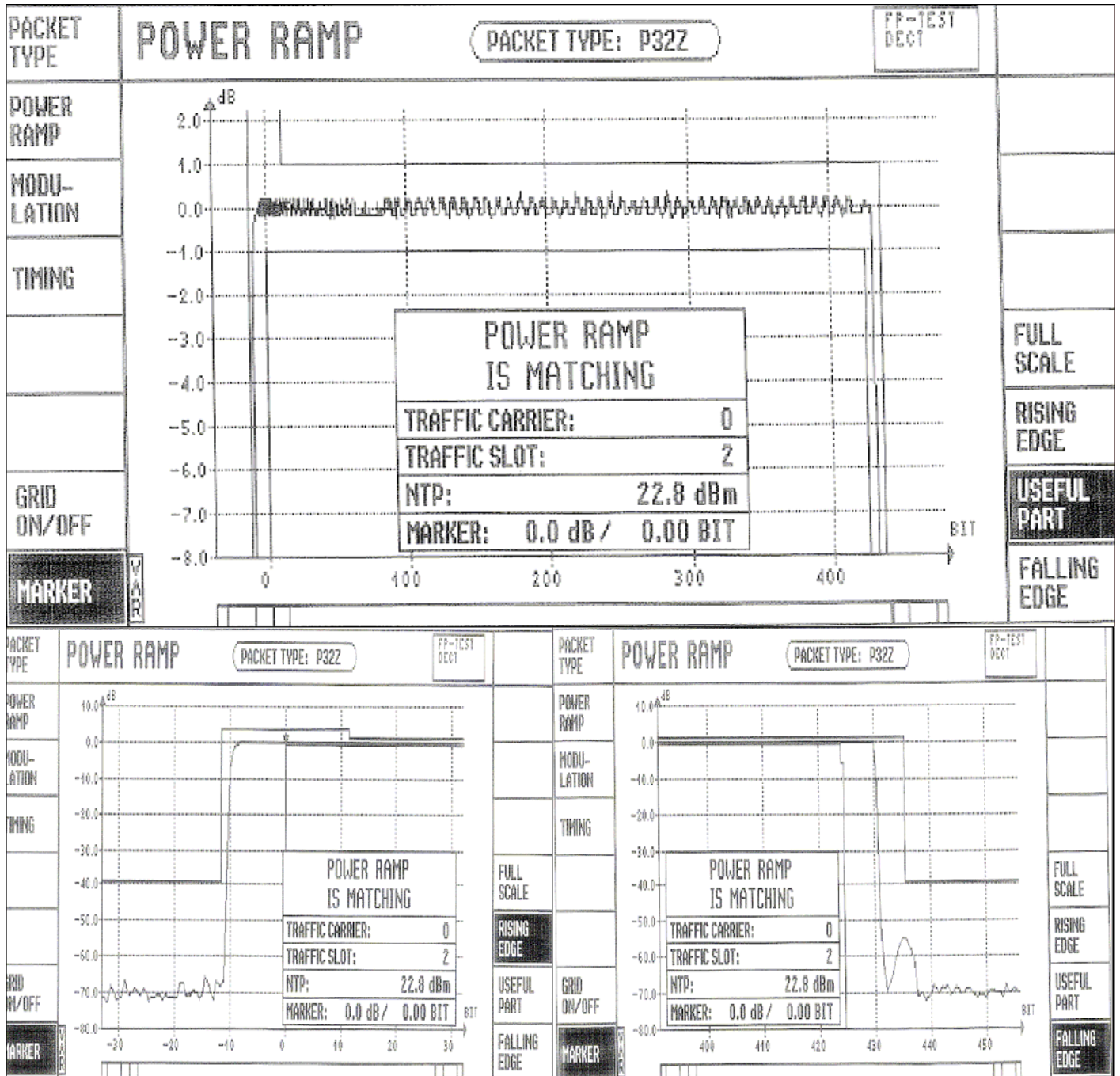
Ctrl. No.: 5.1.5

# INTERTEK TESTING SERVICES

Report No.: HK08020362-2(R1)

RF Channel, C = 0

Temperature: +40°C



Ctrl. No.: 5.1.6

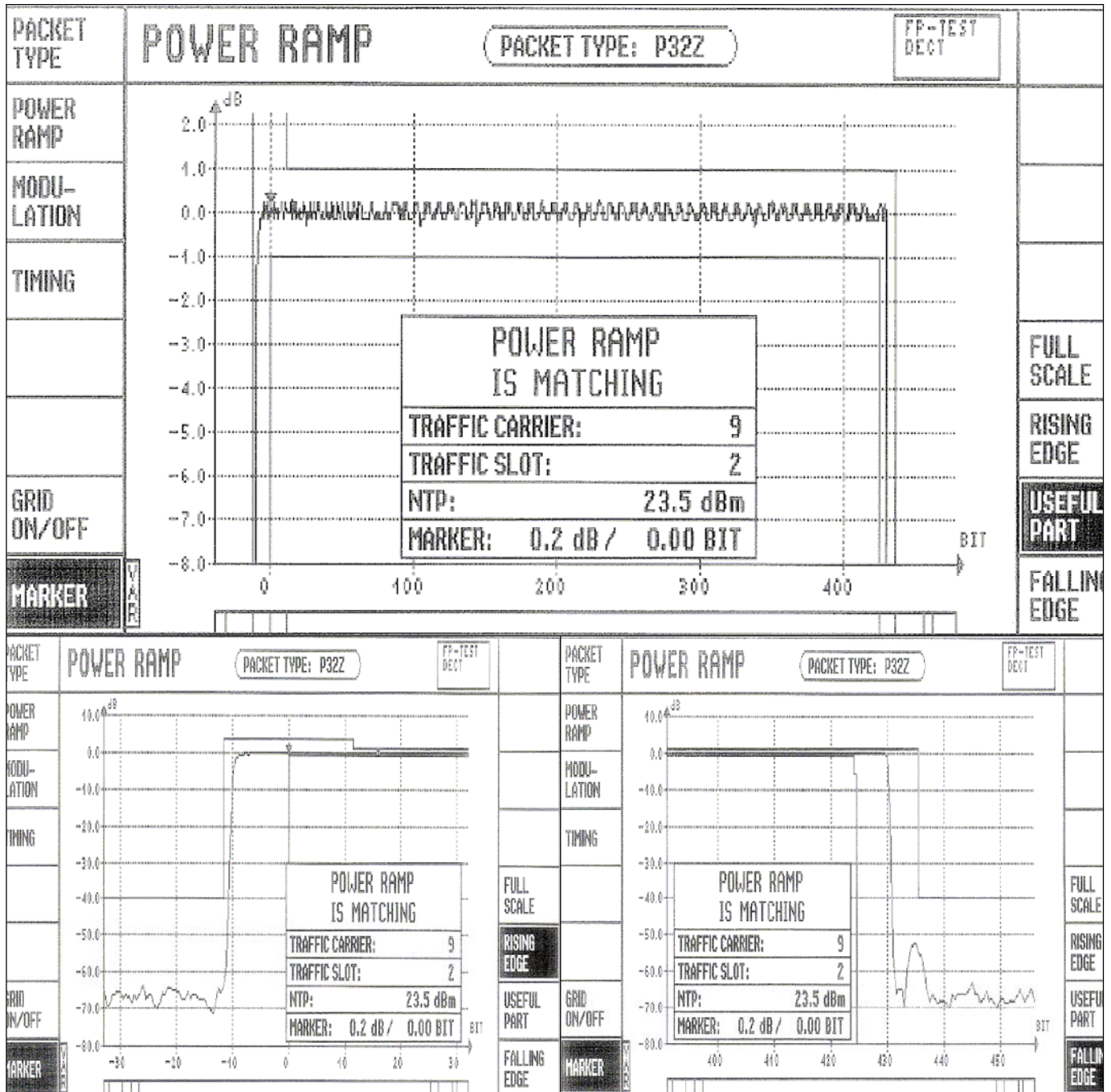


# INTERTEK TESTING SERVICES

Report No.: HK08020362-2(R1)

RF Channel, C = 9

Temperature: Ambient



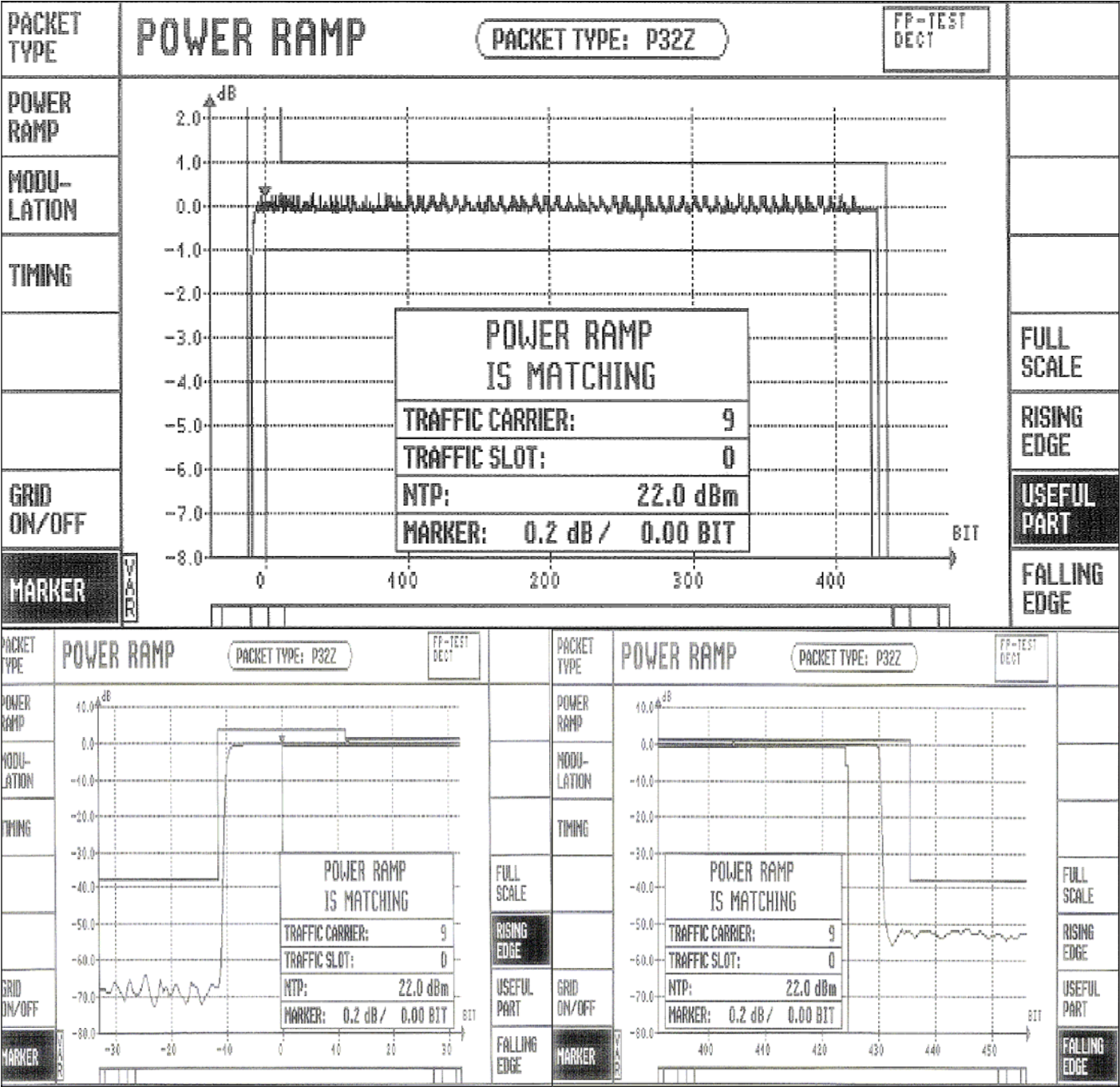
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INTERTEK TESTING SERVICES

Report No.: HK08020362-2(R1)

RF Channel, C = 9

Temperature: +10°C



Ctrl. No.: 5.1.8

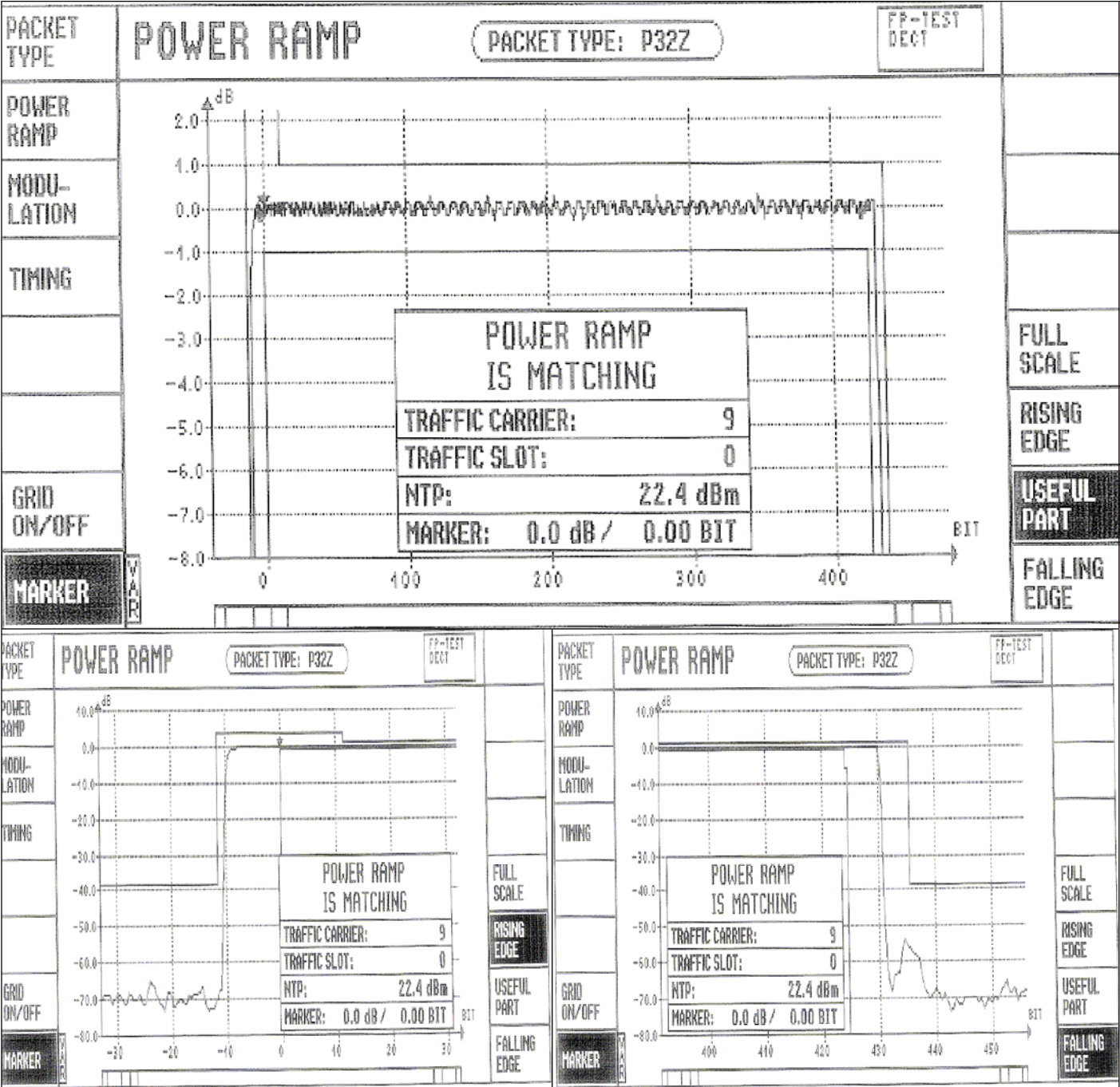


INTERTEK TESTING SERVICES

Report No.: HK08020362-2(R1)

RF Channel, C = 9

Temperature: +40°C



Ctrl. No.: 5.1.9

**Test Case 6: Transmitted Power: RFP with an integral antenna (Clause 5.3.4.1.3) Pass**

RF Channel	Voltage (Vac)	Temperature (°C)	Measured Radiated Power, $P_T$ (dBm)	Measured Normal Transmitted Power, NTP (dBm)	Antenna Gain, G (dB)	Limits
5	230	+25	12.8	23.6	-10.8	NTP < 24dBm, $G < [12 + (24 - NTP)]$
0	230	+25	12.2	23.7	-11.5	NTP < 24dBm, $G < [12 + (24 - NTP)]$
9	230	+25	12.4	23.5	-11.1	NTP < 24dBm, $G < [12 + (24 - NTP)]$

**Test Case 8: RF carrier modulation (Clause 5.3.5.2)**

**Part 1 measurement (Clause 5.3.5.2.2) ----- Pass**

RF Channel	Voltage (Vac)	Temperature (°C)	Number of Bursts Evaluated	Lower Limit (kHz)	Measured Peak Frequency Deviation (kHz)	Upper Limit (kHz)
5	230	+25	10	259.0	390	403.0
				-403.0	-387	-259.0

**Part 2 measurement (Clause 5.3.5.2.3) ----- Pass**

RF Channel	Voltage (Vac)	Temperature (°C)	Number of Bursts Evaluated	Lower Limit (kHz)	Measured Peak Frequency Deviation (kHz)	Upper Limit (kHz)
5	230	+25	10	202.0	377	403.0
				-403.0	-370	-202.0

**Part 3 measurement (Clause 5.3.5.3.1) ----- Pass**

RF Channel	Voltage (Vac)	Temperature (°C)	Number of Bursts Evaluated	Lower Limit (kHz)	Measured Peak Frequency Deviation (kHz)	Upper Limit (kHz)
5	230	+25	10	202.0	338	403.0
				-403.0	-345	-202.0

**Part 4 measurement (Clause 5.3.5.3.2) ----- Pass**

RF Channel	Voltage (Vac)	Temperature (°C)	Measured Frequency Drift	Limit
5	230	+25	3 kHz / slot	Within $\pm 17$ kHz / slot

**Test Case 9: Emissions due to modulation (Clause 5.3.6.2) ----- Pass**

Evaluating RF Channel	Voltage (Vac)	Temperature (°C)	Emission RF Channel	Measured Emission Power (dBm)	Limits (dBm)
5	230	+18	0	-52.14	<b>&lt;-44</b>
	230	+18	1	-50.34	<b>&lt;-44</b>
	230	+18	2	-45.85	<-41
	230	+18	3	-35.42	<-30
	230	+18	4	-22.82	<-8
	230	+18	6	-16.43	<-8
	230	+18	7	-35.28	<-30
	230	+18	8	-45.80	<-41
	230	+18	9	-50.28	<b>&lt;-44</b>
0	230	+18	1	-16.94	<-8
	230	+18	2	-35.12	<-30
	230	+18	3	-42.61	<-41
	230	+18	4	-47.62	<b>&lt;-44</b>
	230	+18	5	-45.85	<b>&lt;-44</b>
	230	+18	6	-48.50	<b>&lt;-44</b>
	230	+18	7	-50.61	<b>&lt;-44</b>
	230	+18	8	-52.16	<b>&lt;-44</b>
	230	+18	9	-53.32	<b>&lt;-44</b>
9	230	+18	0	-52.09	<b>&lt;-44</b>
	230	+18	1	-50.96	<b>&lt;-44</b>
	230	+18	2	-48.55	<b>&lt;-44</b>
	230	+18	3	-44.73	<b>&lt;-44</b>
	230	+18	4	-45.85	<b>&lt;-44</b>
	230	+18	5	-45.44	<b>&lt;-44</b>
	230	+18	6	-43.14	<-41
	230	+18	7	-35.09	<-30
	230	+18	8	-17.52	<-8

**Remarks:** 1. Only one instance of 0.5  $\mu$ W maximum power is allowed among the conditions with bolded limit for each evaluating RF channel 0, 5 and 9.

**Test Case 10: Emissions due to transmitter transients (Clause 5.3.6.3) ----- Pass**

Evaluating RF Channel	Voltage (Vac)	Temperature (°C)	Emission RF Channel	Measured Emission Power (dBm)	Limits (dBm)
0	230	+18	1	-7.91	<-6
	230	+18	2	-30.88	<-14
	230	+18	3	-38.41	<-24
	230	+18	4	-41.51	<-30
	230	+18	5	-43.18	<-30
	230	+18	6	-45.26	<-30
	230	+18	7	-45.49	<-30
	230	+18	8	-46.57	<-30
	230	+18	9	-47.61	<-30
1	230	+18	0	-8.29	<-6
	230	+18	2	-8.26	<-6
	230	+18	3	-30.68	<-14
	230	+18	4	-38.81	<-24
	230	+18	5	-41.24	<-30
	230	+18	6	-43.72	<-30
	230	+18	7	-45.50	<-30
	230	+18	8	-46.79	<-30
	230	+18	9	-47.01	<-30
2	230	+18	0	-20.44	<-14
	230	+18	1	-9.26	<-6
	230	+18	3	-9.07	<-6
	230	+18	4	-30.66	<-14
	230	+18	5	-38.81	<-24
	230	+18	6	-40.80	<-30
	230	+18	7	-43.54	<-30
	230	+18	8	-45.29	<-30
	230	+18	9	-45.64	<-30

Evaluating RF Channel	Voltage (Vac)	Temperature (°C)	Emission RF Channel	Measured Emission Power (dBm)	Limits (dBm)
3	230	+18	0	-26.99	<-24
	230	+18	1	-20.39	<-14
	230	+18	2	-9.64	<-6
	230	+18	4	-8.11	<-6
	230	+18	5	-30.83	<-14
	230	+18	6	-38.59	<-24
	230	+18	7	-41.47	<-30
	230	+18	8	-42.74	<-30
	230	+18	9	-44.36	<-30
4	230	+18	0	-32.72	<-30
	230	+18	1	-27.19	<-24
	230	+18	2	-20.46	<-14
	230	+18	3	-8.84	<-6
	230	+18	5	-9.57	<-6
	230	+18	6	-30.26	<-14
	230	+18	7	-38.72	<-24
	230	+18	8	-40.91	<-30
	230	+18	9	-43.35	<-30
5	230	+18	0	-37.24	<-30
	230	+18	1	-32.64	<-30
	230	+18	2	-26.88	<-24
	230	+18	3	-20.45	<-14
	230	+18	4	-9.03	<-6
	230	+18	6	-8.73	<-6
	230	+18	7	-30.82	<-14
	230	+18	8	-38.44	<-24
	230	+18	9	-40.55	<-30

Evaluating RF Channel	Voltage (Vac)	Temperature (°C)	Emission RF Channel	Measured Emission Power (dBm)	Limits (dBm)
6	230	+18	0	-41.05	<-30
	230	+18	1	-37.51	<-30
	230	+18	2	-32.24	<-30
	230	+18	3	-27.06	<-24
	230	+18	4	-20.49	<-14
	230	+18	5	-8.29	<-6
	230	+18	7	-8.77	<-6
	230	+18	8	-30.66	<-14
	230	+18	9	-38.28	<-24
7	230	+18	0	-43.61	<-30
	230	+18	1	-40.84	<-30
	230	+18	2	-37.22	<-30
	230	+18	3	-32.28	<-30
	230	+18	4	-26.98	<-24
	230	+18	5	-20.46	<-14
	230	+18	6	-9.92	<-6
	230	+18	8	-9.25	<-6
	230	+18	9	-30.76	<-14
8	230	+18	0	-46.19	<-30
	230	+18	1	-45.08	<-30
	230	+18	2	-41.33	<-30
	230	+18	3	-36.98	<-30
	230	+18	4	-32.44	<-30
	230	+18	5	-27.15	<-24
	230	+18	6	-20.51	<-14
	230	+18	7	-9.99	<-6
	230	+18	9	-10.77	<-6

Evaluating RF Channel	Voltage (Vac)	Temperature (°C)	Emission RF Channel	Measured Emission Power (dBm)	Limits (dBm)
9	230	+18	0	-47.14	<-30
	230	+18	1	-45.95	<-30
	230	+18	2	-43.65	<-30
	230	+18	3	-41.29	<-30
	230	+18	4	-37.48	<-30
	230	+18	5	-32.81	<-30
	230	+18	6	-26.98	<-24
	230	+18	7	-20.67	<-14
	230	+18	8	-9.50	<-6



**Test Case 12: Spurious emissions when allocated a transmit channel****Radiated Emissions (Clause 5.3.6.5.1) ----- Pass****Data Table****Radiated Scan****Pursuant to EN 301 406 : Section 5.3.6.5.1.3 Emissions Requirement**

<u>Polarization</u>	Frequency (MHz)	Measured Power (dBm)	Limit (dBm)	Margin (dB)
V	3778.002	-30.7	-30	-0.7

- Notes: 1. Negative sign (-) in the margin column signify levels below the limit.
2. Only emissions significantly above equipment noise floor are reported.
3. Frequency range scanned: 30 MHz to 4000 MHz.
4. -30 dBm corresponds to 1  $\mu$ W

**Test Case 12: Spurious emissions when allocated a transmit channel****Conducted Spurious Emissions (Clause 5.3.6.5.2) ----- Pass****Data Table****Conducted Scan****Pursuant to EN 301 406 : Section 5.3.6.5.2.3 Emissions Requirement**

Frequency (GHz)	Measured Power (dBm)	Limit (dBm)	Margin (dB)
4.106	-51.27	-30	-21.27
5.834	-35.67	-30	-5.67
6.674	-51.14	-30	-21.14
7.526	-39.64	-30	-9.64
8.556	-50.99	-30	-20.99
9.406	-30.39	-30	-0.39
10.622	-50.99	-30	-20.99
11.288	-33.69	-30	-3.69
12.087	-51.66	-30	-21.66

Notes: 1. Negative sign (-) in the margin column signify levels below the limit.

2. Only emissions significantly above equipment noise floor are reported.

3. Frequency range scanned: 4 GHz to 12.75 GHz

4. -30 dBm corresponds to 1  $\mu$ W

**Test Case 13: Radio Receiver Sensitivity (Clause 5.3.7.1) ----- Pass**

RF Channel	Voltage (Vac)	Temperature (°C)	RF Carrier Frequency Offset	Measured Bit Error Rate, BER	Limits
5	230	+23	0 kHz	0.000	≤0,001
	230	+23	-50 kHz	0.000	≤0,001
	230	+23	+50 kHz	0.000	≤0,001
0	230	+23	0 kHz	0.000	≤0,001
	230	+23	-50 kHz	0.000	≤0,001
	230	+23	+50 kHz	0.000	≤0,001
9	230	+23	0 kHz	0.000	≤0,001
	230	+23	-50 kHz	0.000	≤0,001
	230	+23	+50 kHz	0.000	≤0,001

**Test Case 14: Radio Receiver Reference Bit Error Ratio (Clause 5.3.7.2) ----- Pass**

RF Channel	Voltage (Vac)	Temperature (°C)	Measured Frame Error Rate FER	Measured Bit Error Rate BER	Limits
5	230	+23	0.000000	0.0000000	BER ≤ 0,00001, FER ≤ 0,0005
0	230	+23	0.000000	0.0000000	BER ≤ 0,00001, FER ≤ 0,0005
9	230	+23	0.000000	0.0000000	BER ≤ 0,00001, FER ≤ 0,0005

**Test Case 15: Radio Receiver Interference Performance (Clause 5.3.7.3) ----- Pass**

Evaluating RF Channel	Voltage (Vac)	Temperature (°C)	DECT-Like Interferer RF Channel	Measured Bit Error Rate BER	Limits
5	230	+23	5	0.00000	BER ≤ 0,001
	230	+23	4	0.00000	BER ≤ 0,001
	230	+23	6	0.00000	BER ≤ 0,001
	230	+23	3	0.00000	BER ≤ 0,001
	230	+23	7	0.00000	BER ≤ 0,001
	230	+23	-3	0.00000	BER ≤ 0,001
	230	+23	-2	0.00000	BER ≤ 0,001
	230	+23	-1	0.00000	BER ≤ 0,001
	230	+23	0	0.00000	BER ≤ 0,001
	230	+23	1	0.00000	BER ≤ 0,001
	230	+23	2	0.00000	BER ≤ 0,001
	230	+23	8	0.00000	BER ≤ 0,001
	230	+23	9	0.00000	BER ≤ 0,001
	230	+23	10	0.00000	BER ≤ 0,001
	230	+23	11	0.00000	BER ≤ 0,001
	230	+23	12	0.00000	BER ≤ 0,001

Evaluating RF Channel	Voltage (Vac)	Temperature (°C)	DECT-Like Interferer RF Channel	Measured Bit Error Rate BER	Limits
0	230	+23	0	0.00000	BER ≤ 0,001
	230	+23	-1	0.00000	BER ≤ 0,001
	230	+23	1	0.00000	BER ≤ 0,001
	230	+23	-2	0.00000	BER ≤ 0,001
	230	+23	2	0.00000	BER ≤ 0,001
	230	+23	-3	0.00000	BER ≤ 0,001
	230	+23	3	0.00000	BER ≤ 0,001
	230	+23	4	0.00000	BER ≤ 0,001
	230	+23	5	0.00000	BER ≤ 0,001
	230	+23	6	0.00000	BER ≤ 0,001
	230	+23	7	0.00000	BER ≤ 0,001
	230	+23	8	0.00000	BER ≤ 0,001
	230	+23	9	0.00000	BER ≤ 0,001
	230	+23	10	0.00000	BER ≤ 0,001
	230	+23	11	0.00000	BER ≤ 0,001
	230	+23	12	0.00000	BER ≤ 0,001
9	230	+23	9	0.00000	BER ≤ 0,001
	230	+23	8	0.00000	BER ≤ 0,001
	230	+23	10	0.00000	BER ≤ 0,001
	230	+23	7	0.00000	BER ≤ 0,001
	230	+23	11	0.00000	BER ≤ 0,001
	230	+23	-3	0.00000	BER ≤ 0,001
	230	+23	-2	0.00000	BER ≤ 0,001
	230	+23	-1	0.00000	BER ≤ 0,001
	230	+23	0	0.00000	BER ≤ 0,001
	230	+23	1	0.00000	BER ≤ 0,001
	230	+23	2	0.00000	BER ≤ 0,001
	230	+23	3	0.00000	BER ≤ 0,001
	230	+23	4	0.00000	BER ≤ 0,001
	230	+23	5	0.00000	BER ≤ 0,001
	230	+23	6	0.00000	BER ≤ 0,001
	230	+23	12	0.00000	BER ≤ 0,001

**Test Case 16: Radio Receiver Blocking Case 1 (Clause 5.3.7.4):**

**Owing to signals occurring at the same time but on other frequencies**

Section 5.3.7.4.2 h)

With Interferers as below, no Separated Occurrences were found.

<i>Frequency (f) (MHz)</i>	<i>Conducted interferer level (dBm)</i>
$25\text{ MHz} \leq f < F_L - 100\text{ MHz}$	-23
$F_L - 100\text{ MHz} \leq f < F_L - 5\text{ MHz}$	-33
$ f - F_c  > 6\text{ MHz}$	-43
$F_U + 5\text{ MHz} < f \leq F_U + 100\text{ MHz}$	-33
$F_U + 100\text{ MHz} < f \leq 12,75\text{ GHz}$	-23

$F_L$ : 1880.000MHz

$F_c$ : 1888.704MHz

$F_U$ : 1900.000MHz

Section 5.3.7.4.2 i)

With Interferers reduced to -43dBm for the frequency causing BER > 0,001, no frequency resulting in BER > 0,001 were found such that no Separated Occurrences were found.

Section 5.3.7.4.2 j)

With Interferers reduced to -63dBm for the frequency causing BER > 0,001, no frequency resulting in BER > 0,001 were found such that no Separated Occurrences were found.

	<i>Total number of Separated Occurrences</i>	<i>Limits</i>	<i>Results</i>
Section 5.3.7.4.2 h)	0	$\leq 8$	OK
Section 5.3.7.4.2 i)	0	$\leq 4$	OK
Section 5.3.7.4.2 j)	0	$= 0$	OK
<b>Overall Results</b>			<b>Pass</b>

**Test Case 17: Radio Receiver Blocking Case 2 (Clause 5.3.7.5):****Owing to signals occurring at a different time ----- Pass**

RF Channel	Voltage (Vac)	Temperature (°C)	DECT-like Interferer RF Channel	Measured Bit Error Rate BER	Limits
5	230	+25	5	0.00020	$BER \leq 0,001$
0	230	+25	0	0.00034	$BER \leq 0,001$
9	230	+25	9	0.00019	$BER \leq 0,001$



**Test Case 18: Receiver Intermodulation Performance (Clause 5.3.7.6) ----- Pass**

RF Channel	Voltage (Vac)	Temperature (°C)	DECT-like Interferer RF Channel	Continuous-wave Interferer RF Channel	Measured Bit Error Rate BER	Limits
5	230	+23	9	7	0.00000	BER ≤ 0,001
5	230	+23	1	3	0.00000	BER ≤ 0,001
0	230	+23	4	2	0.00000	BER ≤ 0,001
9	230	+23	5	7	0.00000	BER ≤ 0,001

## EUT Photos (External---With Integral Antenna)

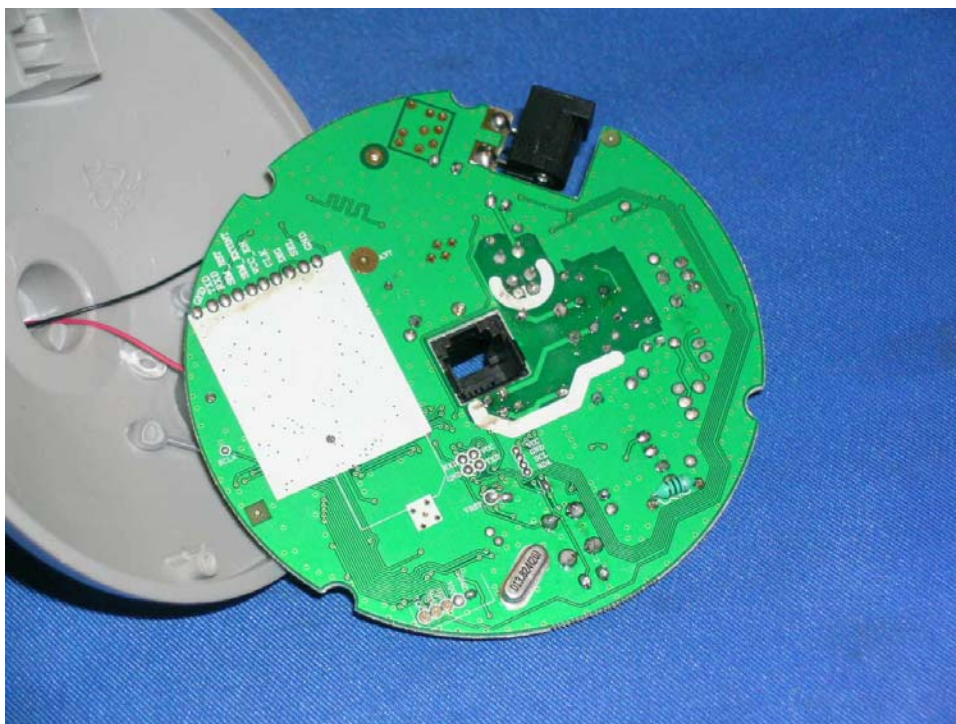
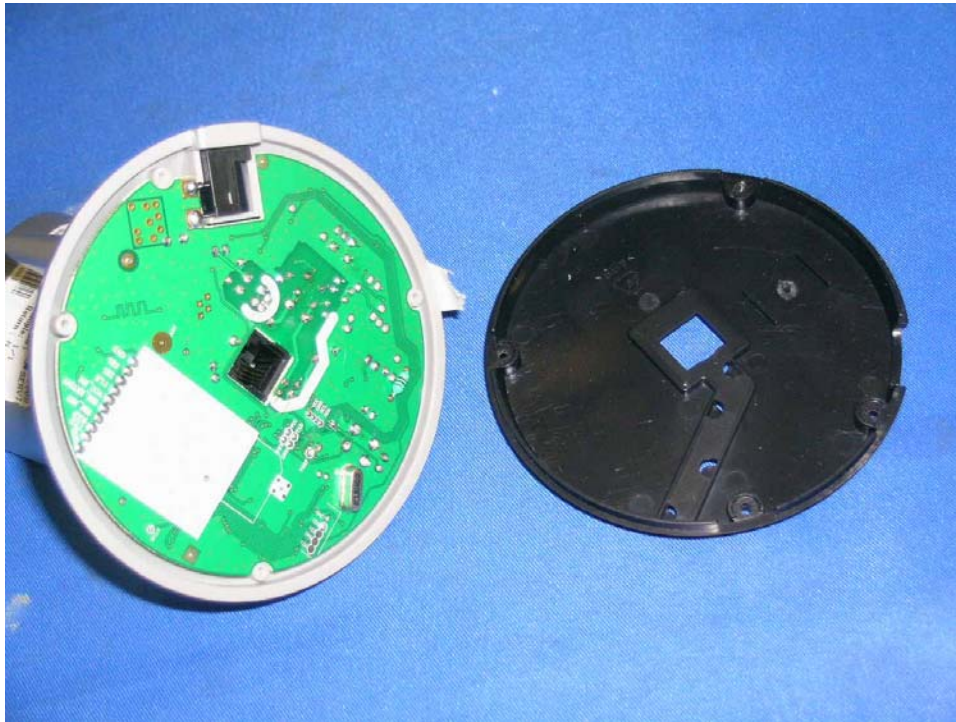


**EUT Photos (External --- With Integral Antenna)**



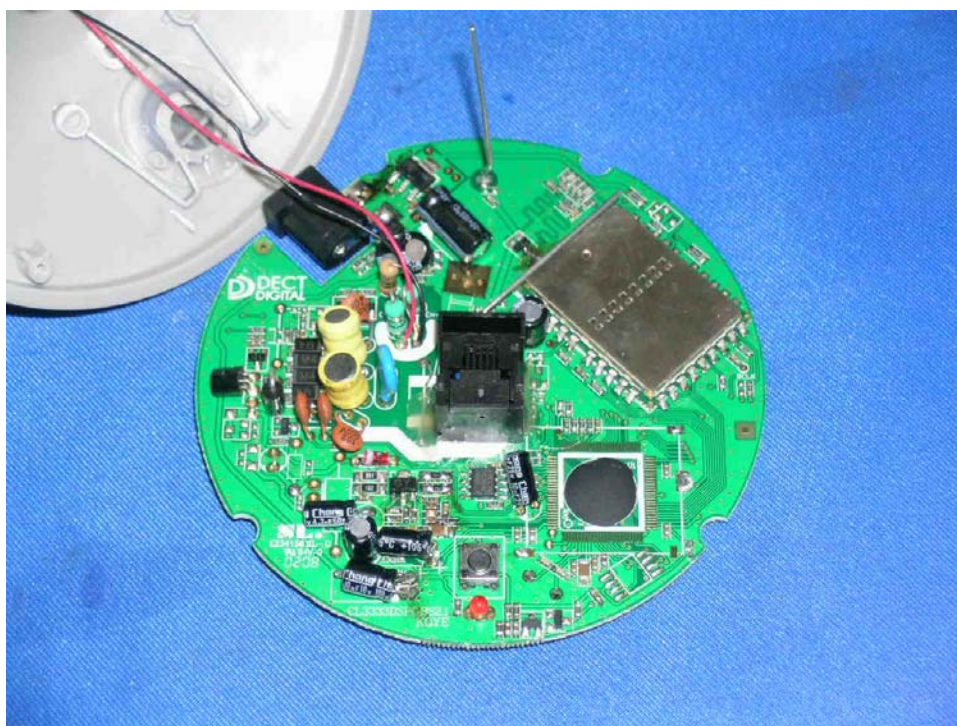


**EUT Photos (Internal --- With Integral Antenna)**

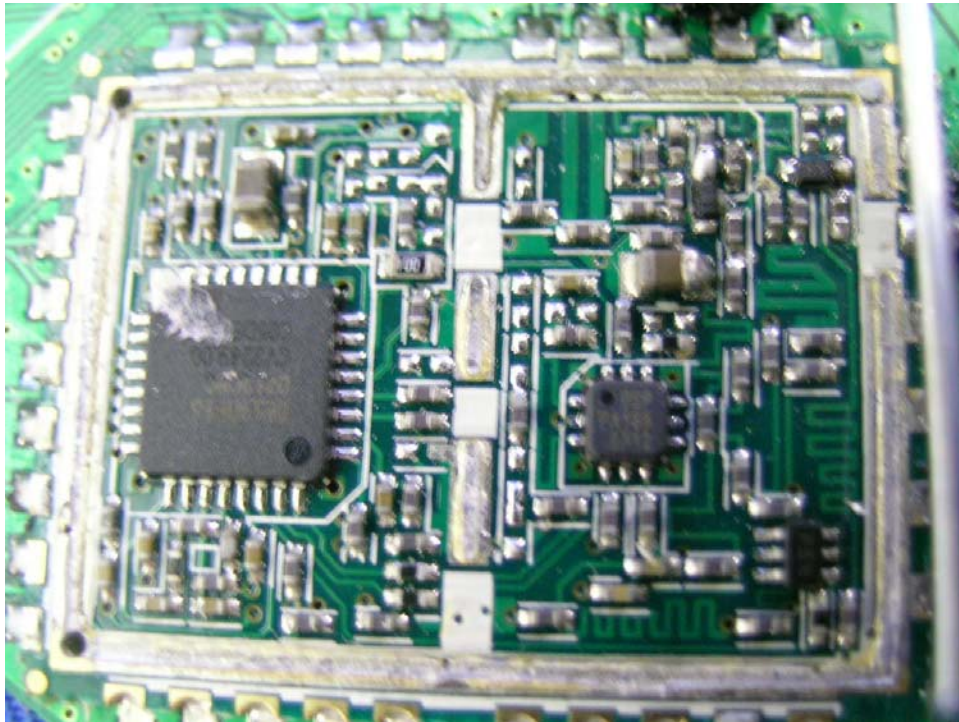




**EUT Photos (Internal --- With Integral Antenna)**



**EUT Photos (Internal --- With Integral Antenna)**



## **Applicant's Declaration**

### Notes:

1. A page of statement from the applicant, declaring the captioned model fulfils the requirement of "*Equipment Identity Verification / Safeguards*" and "*Efficient Use of the Radio Spectrum*", is attached.
2. Totally 2 pages of statement from the applicant, providing extra information for the conformance test, are attached.



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Tel: +86-592-562-5929  
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Fax: +86-592-603-7860

Re: Model:CL-3333

With reference to the captioned model, I hereby to declare that the samples fulfil both of the following requirements accordingly:

**1. Equipment Identity Verification/Safeguards**

-- Described in "ETSI EN 301406 V1.5.1 (2003-07) sections 4.5.9 & 5.3.9)"

**2. Efficient use of the radio spectrum**

-- Described in "ETSI EN 301406 V1.5.1 (2003-07) sections 4.5.10 & 5.3.10)"

Dated this 9<sup>th</sup> day of April 2008.

By \_\_\_\_\_

Signature

Mr. Simon Liu

Printed



Title Director



**PROTOCOL IMPLEMENTATION CONFORMANCE STATEMENT  
(PICS). DECT EQUIPMENT, EN 301 406.**

Terminal type      FP ☒      PP ☐      WRS (Wireless Relay Station) ☐  
CTA (Cordless Terminal Adaptor) ☐      HyP (Hibrid Part) ☐  
FP, RFP or CCFP class E1 ☒      E2 ☐  
FP Synchronization port for intersystem synchronization      Yes ☐ No ☒  
PP to PP communication mode      Yes ☐      No ☒  
Distributed communications option      Yes ☐      No ☒  
Higher level modulation options (see EN 301 406 v1.4.1 section 4.5.14)      Yes ☐      No ☒  
If yes, specify configuration(s):

Frequency band       GHz      to       GHz

RFPI (Radio Fixed Part Identity, 10 hexadecimal characters)

1	1	2	2	3	3	0	1	0	0
---	---	---	---	---	---	---	---	---	---

PMID (Portable Mac Identity, 5 hexadecimal characters)

E	B	E	8	D
---	---	---	---	---

Packet type      A-Field only ☐      Half Slot ☐      Full Slot ☒      Double Slot ☐ P32Z

Z field      Yes ☒      No ☐

Antenna diversity      Yes ☐      No ☒

Number of external antenna connectors      0 ☒      1 ☐      2 ☐      3 ☐      other:

Number of integral antennas      0 ☐      1 ☐      2 ☒      3 ☐      other:

Number of external antennas      0 ☒      1 ☐      2 ☐      3 ☐      other:

Antenna number for test on channel 0      0 ☐      1 ☐      2 ☒      3 ☐      other:

Antenna number for test on channel 5      0 ☐      1 ☐      2 ☒      3 ☐      other:

Antenna number for test on channel 9      0 ☐      1 ☐      2 ☒      3 ☐      other:

DP bit (value of the DP bit in the message "defeat antenna diversity")      0 ☐      1 ☒

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Power supply      AC ☒      Ni Cd ☐      Pb Acid ☐      other:

Nominal working voltage (V)     

Minimum testing power supply (V)     

Maximum testing power supply (V)     

Maximum number of slots per frame the EUT is capable of transmitting  
in normal operation     

**Test mode setup procedure:**

CL-3318 TBR6 test mode

Base:

Press and hold the “PAGE” key, connect to the power, then the “In Use” indicator flashes, and you hear clew sound .

NOTE: Scrambling must be disabled for EN 301 406 test

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**INTERTEK TESTING SERVICES**  
**TO OUR CLIENTS**  
**GUIDELINES**  
**FOR COMPLETING A**  
**DECLARATION OF CONFORMITY**

There are many Directives and Standards in place, and you should assure yourself that the correct ones have been applied to your product.

The attached blank Declaration of Conformity complies with the format published in the Official Journal of the European Community. To complete the form:

1. List all applicable Directives, by number, on the top lines.  
  
e.g. 88/378/EEC for Toy Directive  
2004/108/EC for EMC Directive  
2006/95/EC for Low Voltage Directive  
93/68/EEC for CE Marking Directive  
1999/5/EC for R&TTE Directive
2. List the Standards under these Directives to which conformity is being declared. Intertek Testing Services test report(s) which you should retain to support your declaration contain this information.
3. Add manufacturer's and importer's name and address. The importer should be located within the EU.
4. Specify the type of equipment and model. You may list a block of serial numbers corresponding to the import quantity during the year of manufacture shown.
5. The Declaration of Conformity should be signed by the manufacturer or his authorized representative established within the EU.

NOTES:

- A. A COPY OF THE DECLARATION MUST ACCOMPANY IMPORT PAPERS INTO THE EC. ADDITIONAL COPIES MAY ALSO BE SUPPLIED IN EACH PRODUCT CARTON, WITH EACH PALLETIZED SHIPMENT, IN THE INSTRUCTION MANUAL OR ON THE WARRANTY CARD.
- B. THE IMPORTER OR THE MANUFACTURER'S AUTHORIZED REPRESENTATIVE MUST KEEP THE DECLARATION OF CONFORMITY AND THE TEST REPORTS AT THE DISPOSAL OF THE AUTHORITIES FOR A PERIOD OF TEN YEARS AFTER THE EQUIPMENT HAS BEEN PLACED ON THE MARKET.

### **Declaration of Conformity**

Application of Council Directive(s):

---

Standard(s) to which Conformity is Declared:

---

Manufacturer's Name : .....

Manufacturer's Address : .....

.....

Import's Name : .....

Import's Address : .....

.....

Type of Equipment : .....

Model No. : .....

Serial No. : .....

Year of Manufacturer : .....

I, the undersigned, hereby declare that the equipment specified above conforms to the above Directive(s) and Standard(s).

Place : .....

---

(Signature)

Date : .....

---

(Full Name)

---

(Position)